

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P968684

Luminaire Tested: **NAV-SB5C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31752.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

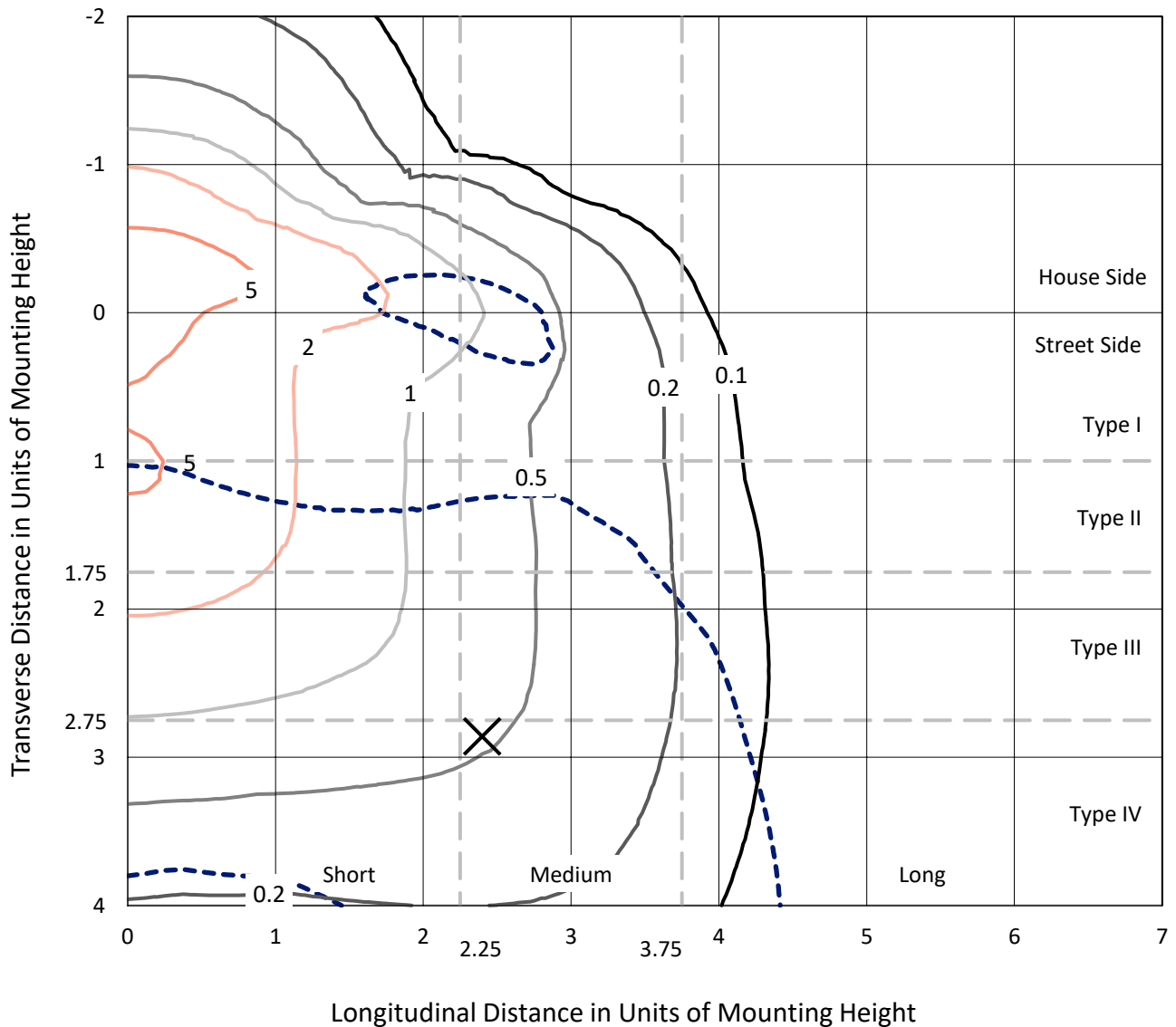
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

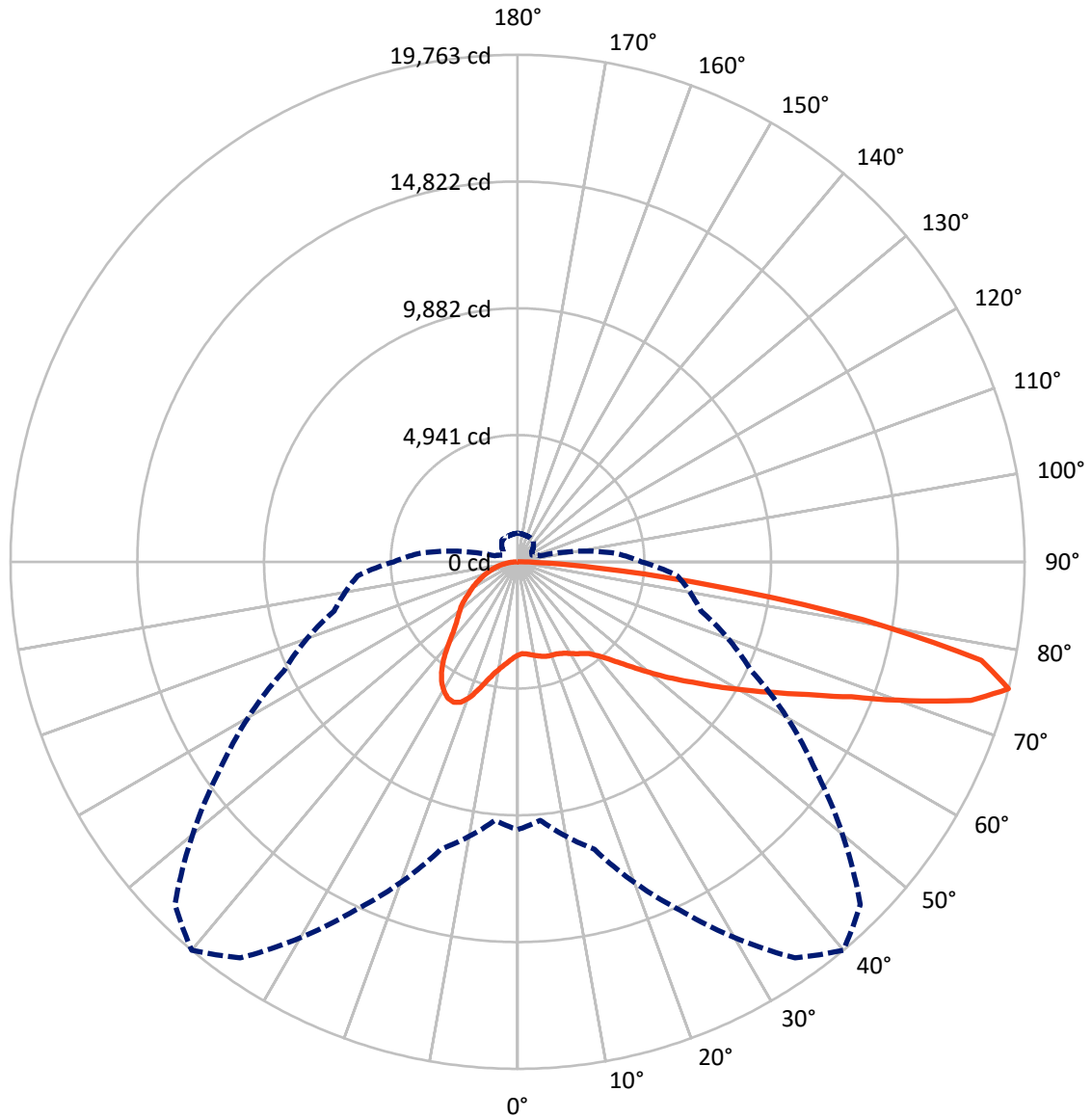
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.0	0.0	9838.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	21914.5	0.0	21914.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	31752.4	0.0	31752.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.4	1.1
10°-20°	1216.9	3.8
20°-30°	2221.9	7.0
30°-40°	3151.3	9.9
40°-50°	4255.1	13.4
50°-60°	5724.3	18.0
60°-70°	7265.5	22.9
70°-80°	6593.9	20.8
80°-90°	961.2	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31752.4	100.0
0°-180°	31752.4	100.0

Coefficient of Utilization

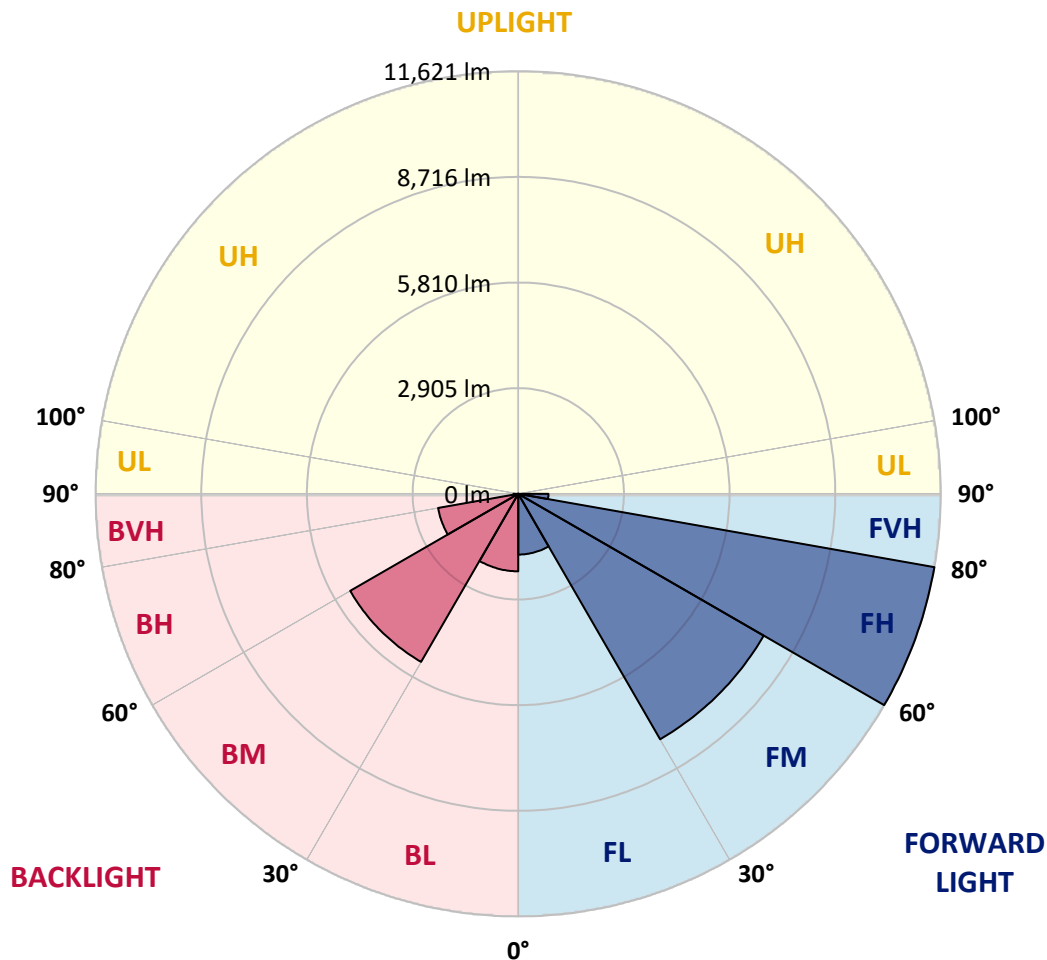


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.2	5.3			
FM (30°-60°)	7794.5	24.5			
FH (60°-80°)	11620.9	36.6			G4/12000
FVH (80°-90°)	828.8	2.6			G5
BL (0°-30°)	2131.0	6.7	B3/2500		
BM (30°-60°)	5336.2	16.8	B4/8500		
BH (60°-80°)	2238.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	132.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0
2.5°	3575.4	3595.6	3590.5	3583.8	3583.8	3585.4	3583.8	3595.6	3607.4	3619.2	3637.6
5°	3612.4	3632.6	3622.6	3614.0	3607.4	3605.6	3600.6	3599.0	3605.6	3620.8	3646.1
7.5°	3684.9	3705.1	3689.9	3674.7	3661.3	3654.5	3647.8	3637.6	3632.6	3641.0	3676.4
10°	3765.6	3785.8	3767.4	3740.4	3718.5	3710.1	3703.3	3693.3	3686.5	3691.5	3730.3
12.5°	3846.5	3866.7	3841.5	3804.4	3775.8	3770.7	3762.3	3758.9	3757.2	3755.6	3794.2
15°	3922.3	3939.2	3907.1	3863.3	3833.0	3824.6	3816.2	3821.2	3829.7	3839.8	3883.5
17.5°	3981.2	3998.1	3951.0	3893.7	3865.1	3861.7	3856.6	3873.5	3897.0	3922.3	3976.2
20°	4035.1	4051.9	3991.3	3913.9	3880.1	3880.1	3881.9	3917.2	3951.0	3988.0	4062.1
22.5°	4110.9	4124.4	4050.3	3944.2	3895.3	3898.7	3912.2	3947.6	3989.6	4040.1	4142.9
25°	4223.7	4233.9	4142.9	4001.4	3945.8	3956.0	3967.8	3984.6	4025.0	4084.0	4222.1
27.5°	4405.7	4414.1	4294.4	4102.5	4018.3	4035.1	4051.9	4040.1	4058.7	4109.2	4286.0
30°	4661.6	4666.6	4515.1	4260.8	4141.2	4149.6	4153.0	4104.2	4068.8	4109.2	4331.5
32.5°	4964.8	4963.0	4782.9	4452.8	4281.0	4272.6	4243.9	4148.0	4065.5	4100.8	4371.9
35°	5434.7	5416.1	5183.7	4722.3	4439.3	4387.1	4319.8	4196.8	4082.3	4092.4	4407.3
37.5°	6212.6	6155.4	5833.8	5163.4	4675.1	4542.1	4442.7	4276.0	4119.4	4089.0	4449.4
40°	7090.1	7017.7	6664.0	5768.1	5028.8	4814.8	4654.8	4388.7	4180.0	4104.2	4511.7
42.5°	8130.9	8028.1	7647.5	6480.5	5476.7	5166.8	4926.0	4531.9	4269.2	4153.0	4595.9
45°	9409.1	9272.7	8733.8	7283.8	6040.9	5628.3	5306.6	4749.1	4405.7	4247.3	4722.3
47.5°	10700.8	10734.5	9968.2	8203.3	6718.0	6197.6	5783.3	5075.9	4604.3	4398.9	4926.0
50°	12073.4	12096.9	11196.0	9222.1	7485.9	6840.8	6318.8	5441.3	4880.5	4614.4	5230.9
52.5°	13144.5	13147.8	12310.9	10288.2	8285.8	7548.2	6896.4	5859.0	5200.5	4900.7	5636.7
55°	13814.7	13806.3	13092.2	11297.0	9205.3	8290.8	7536.4	6333.9	5591.3	5237.5	6147.0
57.5°	14301.4	14276.2	13631.2	12164.3	10185.5	9168.3	8260.6	6872.8	6052.7	5638.4	6818.9
60°	14486.7	14471.6	13996.6	12913.8	11216.2	10138.3	9095.8	7475.7	6576.4	6111.7	7682.9
62.5°	14557.5	14586.1	14355.3	13639.6	12319.3	11212.8	10013.7	8196.5	7165.9	6647.1	8594.0
65°	14806.6	14858.9	14811.8	14589.4	13565.5	12470.8	11231.3	9053.7	7809.2	7221.4	9545.5
67.5°	15300.1	15352.3	15372.5	15726.2	15087.9	14038.7	12750.4	10121.5	8562.0	7817.7	10261.3
70°	15288.3	15273.2	15630.2	16630.5	16994.3	16209.6	14798.2	11435.1	9459.6	8312.8	10352.2
72.5°	13915.8	13794.6	14638.2	16620.5	18580.8	18476.3	17299.1	13129.3	10234.3	8373.4	8983.0
75°	10439.8	10116.4	11606.9	14978.4	18845.1	19763.0	18888.9	14180.2	10050.7	7398.2	6251.4
77.5°	4464.6	4139.6	5896.1	11088.1	16866.4	18474.7	17430.5	12371.4	8023.1	4892.3	3070.1
80°	1168.8	1167.1	1781.8	5027.0	11470.5	13643.0	11968.9	7989.4	4584.1	1748.1	847.1
82.5°	483.3	471.5	655.1	1955.3	5604.7	7655.9	6248.0	3563.6	1655.5	473.2	281.3
85°	180.2	178.6	318.3	675.4	1977.1	3157.7	2285.3	911.1	412.6	230.7	126.3
87.5°	50.5	48.8	69.1	234.1	481.6	730.9	390.7	149.9	116.2	90.9	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0	3631.0
2.5°	3642.7	3651.2	3666.3	3678.1	3693.3	3710.1	3733.7	3748.8	3764.0	3774.0	3767.4
5°	3657.9	3676.4	3715.1	3753.9	3799.4	3841.5	3890.3	3925.6	3954.2	3962.8	3966.0
7.5°	3691.5	3721.9	3787.6	3853.3	3925.6	3994.7	4065.5	4126.0	4174.9	4193.4	4195.1
10°	3750.5	3791.0	3883.5	3976.2	4072.1	4178.3	4269.2	4356.8	4425.8	4454.4	4456.2
12.5°	3824.6	3875.1	3996.4	4124.4	4257.4	4403.9	4521.8	4629.6	4715.5	4754.3	4754.3
15°	3920.6	3986.3	4141.2	4313.0	4508.4	4712.1	4862.0	4981.6	5077.5	5124.7	5121.4
17.5°	4025.0	4112.6	4308.0	4567.3	4846.8	5114.6	5289.8	5377.4	5476.7	5522.2	5520.5
20°	4126.0	4233.9	4513.4	4890.7	5262.9	5547.4	5689.0	5712.5	5719.2	5724.3	5737.7
22.5°	4230.5	4375.3	4771.1	5298.2	5697.4	5894.4	5914.6	5813.5	5672.0	5606.4	5624.9
25°	4345.0	4537.0	5107.9	5747.9	6071.2	6094.8	5939.9	5694.0	5426.1	5303.2	5321.8
27.5°	4456.2	4723.9	5512.0	6177.3	6340.6	6133.5	5800.1	5451.5	5128.1	4998.4	5013.6
30°	4567.3	4937.8	5958.3	6552.8	6463.6	6037.6	5579.5	5190.4	4865.4	4728.9	4744.1
32.5°	4680.2	5187.0	6472.1	6824.0	6441.7	5833.8	5304.9	4897.3	4611.1	4468.0	4486.4
35°	4808.2	5493.6	6958.7	6972.2	6295.2	5534.0	4942.9	4547.1	4297.8	4183.3	4208.5
37.5°	4974.8	5882.6	7388.2	7009.3	6039.2	5094.5	4493.2	4132.8	3927.3	3875.1	3912.2
40°	5182.0	6350.8	7716.6	6950.3	5660.3	4560.5	4001.4	3713.5	3597.2	3609.0	3649.4
42.5°	5451.5	6874.6	7947.3	6798.7	5133.2	4009.9	3570.3	3442.4	3497.9	3545.1	3588.8
45°	5801.7	7418.5	8090.4	6541.0	4537.0	3543.3	3316.0	3346.3	3388.4	3393.5	3427.2
47.5°	6249.7	7969.2	8184.7	6152.0	3929.0	3214.9	3154.3	3161.1	3152.7	3117.3	3144.2
50°	6808.9	8504.7	8269.0	5636.7	3412.0	3009.5	2928.6	2905.1	2788.9	2674.3	2689.5
52.5°	7445.4	8996.5	8304.3	4996.8	3009.5	2837.7	2706.4	2558.2	2340.9	2305.5	2317.3
55°	8152.7	9451.2	8213.4	4210.3	2670.9	2617.1	2418.4	2239.8	2216.3	2186.0	2191.0
57.5°	8998.2	9941.3	8028.1	3332.9	2324.1	2359.4	2165.7	2186.0	2143.9	2096.7	2088.3
60°	9922.7	10448.2	7703.1	2532.9	1965.3	2037.8	2100.1	2098.4	2086.6	2047.8	2034.4
62.5°	10754.7	10781.7	7063.2	1940.1	1650.5	1788.5	1958.6	1956.9	1946.8	1925.0	1916.5
65°	11249.8	10731.1	5995.4	1527.5	1391.0	1583.0	1766.6	1780.1	1781.8	1780.1	1780.1
67.5°	11162.2	10140.0	4530.3	1216.0	1177.2	1374.2	1576.3	1594.9	1608.3	1611.7	1615.1
70°	10172.0	8841.5	2953.9	970.1	986.9	1190.6	1396.2	1414.6	1426.4	1439.9	1446.7
72.5°	7928.8	6500.7	1690.8	784.8	820.2	1032.4	1217.6	1239.5	1246.2	1271.5	1281.6
75°	4831.7	3822.9	912.8	618.1	673.6	882.4	1040.8	1066.0	1077.8	1108.1	1111.5
77.5°	2297.1	1655.5	520.4	481.6	542.3	720.8	879.1	907.7	875.8	892.6	879.1
80°	776.3	614.7	328.4	367.2	414.3	562.5	704.0	732.6	665.2	661.8	655.1
82.5°	271.1	249.3	208.8	244.2	267.7	402.5	532.2	569.2	495.2	493.4	469.9
85°	106.1	101.1	116.2	133.0	160.0	247.5	350.3	368.8	304.8	245.9	242.5
87.5°	21.9	23.6	28.6	30.3	48.8	85.9	126.3	155.0	122.9	104.4	96.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)